

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/667,271A
Source: FW16
Date Processed by STIC: 6/16/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06



IFW16

RAW SEQUENCE LISTING

DATE: 06/16/2006

PATENT APPLICATION: US/10/667,271A

TIME: 11:46:30

Input Set : F:\02-763-B Sequence Listing.txt

Output Set: N:\CRF4\06162006\J667271A.raw

3 <110> APPLICANT: Sirna Therapeutics
 4 McSwiggen, James
 5 Macejak, Dennis
 6 Beigelman, Leonid
 7 Morrissey, David
 9 <120> TITLE OF INVENTION: RNA Interference Mediated Inhibition of Hepatitis C Virus
 (HCV)
 10 Gene Expression Using Short Interfering Nucleic Acid (siNA)
 12 <130> FILE REFERENCE: 400/129 (MBHB02-763B)
 14 <140> CURRENT APPLICATION NUMBER: 10/667,271A
 15 <141> CURRENT FILING DATE: 2003-09-16
 17 <150> PRIOR APPLICATION NUMBER: US 10/444,853
 18 <151> PRIOR FILING DATE: 2003-05-23
 20 <150> PRIOR APPLICATION NUMBER: PCT/US03/05043
 21 <151> PRIOR FILING DATE: 2003-02-20
 23 <150> PRIOR APPLICATION NUMBER: PCT/US02/09187
 24 <151> PRIOR FILING DATE: 2002-03-26
 26 <150> PRIOR APPLICATION NUMBER: USSN 60/401,104
 27 <151> PRIOR FILING DATE: 2002-08-05
 29 <150> PRIOR APPLICATION NUMBER: USSN 60/358,580
 30 <151> PRIOR FILING DATE: 2002-02-20
 32 <150> PRIOR APPLICATION NUMBER: USSN 60/363,124
 33 <151> PRIOR FILING DATE: 2002-03-11
 35 <150> PRIOR APPLICATION NUMBER: USSN 60/386,782
 36 <151> PRIOR FILING DATE: 2002-06-06
 38 <150> PRIOR APPLICATION NUMBER: USSN 60/406,784
 39 <151> PRIOR FILING DATE: 2002-08-29
 41 <150> PRIOR APPLICATION NUMBER: USSN 60/408,378
 42 <151> PRIOR FILING DATE: 2002-09-05
 44 <150> PRIOR APPLICATION NUMBER: USSN 60/409,293
 45 <151> PRIOR FILING DATE: 2002-09-09
 47 <150> PRIOR APPLICATION NUMBER: USSN 60/440,129
 48 <151> PRIOR FILING DATE: 2003-01-15
 50 <160> NUMBER OF SEQ ID NOS: 1706
 52 <170> SOFTWARE: PatentIn version 3.2
 54 <210> SEQ ID NO: 1
 55 <211> LENGTH: 19
 56 <212> TYPE: RNA
 57 <213> ORGANISM: Artificial Sequence
 59 <220> FEATURE:
 60 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
 sense region
 62 <400> SEQUENCE: 1
 63 gccccgggag gucucguag

11-12-15
 Does Not Comply
 Corrected Diskette Needed

19

66 <210> SEQ ID NO: 2

RAW SEQUENCE LISTING

DATE: 06/16/2006

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Input Set : F:\02-763-B Sequence Listing.txt

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67 <211> LENGTH: 19
68 <212> TYPE: RNA
69 <213> ORGANISM: Artificial Sequence
71 <220> FEATURE:
72 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
74 <400> SEQUENCE: 2
75 ugugguacug ccugauagg 19
78 <210> SEQ ID NO: 3
79 <211> LENGTH: 19
80 <212> TYPE: RNA
81 <213> ORGANISM: Artificial Sequence
83 <220> FEATURE:
84 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
86 <400> SEQUENCE: 3
87 uugugguacu gccugauag 19
90 <210> SEQ ID NO: 4
91 <211> LENGTH: 19
92 <212> TYPE: RNA
93 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
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99 ccccgaggagg ucucguaga 19
102 <210> SEQ ID NO: 5
103 <211> LENGTH: 19
104 <212> TYPE: RNA
105 <213> ORGANISM: Artificial Sequence
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111 gugguacugc cugauaggg 19
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115 <211> LENGTH: 19
116 <212> TYPE: RNA
117 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
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123 cugccugaua gggugcuug 19
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127 <211> LENGTH: 19
128 <212> TYPE: RNA
129 <213> ORGANISM: Artificial Sequence
131 <220> FEATURE:
132 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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134 <400> SEQUENCE: 7
135 ccuuguggua cugccugau 19

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138 <210> SEQ ID NO: 8
139 <211> LENGTH: 19

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Input Set : F:\02-763-B Sequence Listing.txt

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140 <212> TYPE: RNA
141 <213> ORGANISM: Artificial Sequence
143 <220> FEATURE:
144 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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146 <400> SEQUENCE: 8
147 gcgaaaggcc uugugguac 19
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151 <211> LENGTH: 19
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153 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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158 <400> SEQUENCE: 9
159 uacugccuga uagggugcu 19
162 <210> SEQ ID NO: 10
163 <211> LENGTH: 19
164 <212> TYPE: RNA
165 <213> ORGANISM: Artificial Sequence
167 <220> FEATURE:
168 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
170 <400> SEQUENCE: 10
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174 <210> SEQ ID NO: 11
175 <211> LENGTH: 19
176 <212> TYPE: RNA
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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183 aaaggccuug ugguacugc 19
186 <210> SEQ ID NO: 12
187 <211> LENGTH: 19
188 <212> TYPE: RNA
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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194 <400> SEQUENCE: 12
195 aaggccuugu gguacugcc 19
198 <210> SEQ ID NO: 13
199 <211> LENGTH: 19
200 <212> TYPE: RNA
201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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206 <400> SEQUENCE: 13
207 cuugugguac ugccugaua 19
210 <210> SEQ ID NO: 14

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211 <211> LENGTH: 19
212 <212> TYPE: RNA

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Input Set : F:\02-763-B Sequence Listing.txt

Output Set: N:\CRF4\06162006\J667271A.raw

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213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
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219 aggccuugug guacugccu 19
222 <210> SEQ ID NO: 15
223 <211> LENGTH: 19
224 <212> TYPE: RNA
225 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
230 <400> SEQUENCE: 15
231 guacugccug auaggggugc 19
234 <210> SEQ ID NO: 16
235 <211> LENGTH: 19
236 <212> TYPE: RNA
237 <213> ORGANISM: Artificial Sequence
239 <220> FEATURE:
240 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
242 <400> SEQUENCE: 16
243 acugccugau agggugcuu 19
246 <210> SEQ ID NO: 17
247 <211> LENGTH: 19
248 <212> TYPE: RNA
249 <213> ORGANISM: Artificial Sequence
251 <220> FEATURE:
252 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
254 <400> SEQUENCE: 17
255 cuugcgagug ccccgaggag 19
258 <210> SEQ ID NO: 18
259 <211> LENGTH: 19
260 <212> TYPE: RNA
261 <213> ORGANISM: Artificial Sequence
263 <220> FEATURE:
264 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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266 <400> SEQUENCE: 18
267 cugauaggu gcuugcgag 19
270 <210> SEQ ID NO: 19
271 <211> LENGTH: 19
272 <212> TYPE: RNA
273 <213> ORGANISM: Artificial Sequence
275 <220> FEATURE:
276 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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278 <400> SEQUENCE: 19
279 uugcgagugc cccgggagg 19
282 <210> SEQ ID NO: 20
283 <211> LENGTH: 19

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284 <212> TYPE: RNA

285 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING

DATE: 06/16/2006

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Input Set : F:\02-763-B Sequence Listing.txt

Output Set: N:\CRF4\06162006\J667271A.raw

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287 <220> FEATURE:
288 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
290 <400> SEQUENCE: 20
291 ccugauaggg ugcuugcga 19
294 <210> SEQ ID NO: 21
295 <211> LENGTH: 19
296 <212> TYPE: RNA
297 <213> ORGANISM: Artificial Sequence
299 <220> FEATURE:
300 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
302 <400> SEQUENCE: 21
303 ggccuugugg uacugccug 19
306 <210> SEQ ID NO: 22
307 <211> LENGTH: 19
308 <212> TYPE: RNA
309 <213> ORGANISM: Artificial Sequence
311 <220> FEATURE:
312 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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314 <400> SEQUENCE: 22
315 gcuugcgagu gccccggga 19
318 <210> SEQ ID NO: 23
319 <211> LENGTH: 19
320 <212> TYPE: RNA
321 <213> ORGANISM: Artificial Sequence
323 <220> FEATURE:
324 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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326 <400> SEQUENCE: 23
327 ugccugauag ggugcuugc 19
330 <210> SEQ ID NO: 24
331 <211> LENGTH: 19
332 <212> TYPE: RNA
333 <213> ORGANISM: Artificial Sequence
335 <220> FEATURE:
336 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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342 <210> SEQ ID NO: 25
343 <211> LENGTH: 19
344 <212> TYPE: RNA
345 <213> ORGANISM: Artificial Sequence
347 <220> FEATURE:
348 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
350 <400> SEQUENCE: 25
351 gccugauagg gugcuugcg 19
354 <210> SEQ ID NO: 26
355 <211> LENGTH: 19
356 <212> TYPE: RNA

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357 <213> ORGANISM: Artificial Sequence
359 <220> FEATURE:

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/667,271A

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Input Set : F:\02-763-B Sequence Listing.txt
Output Set: N:\CRF4\06162006\J667271A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1421; N Pos. 20,21
Seq#:1422; N Pos. 20,21
Seq#:1423; N Pos. 20,21
Seq#:1424; N Pos. 20,21
Seq#:1425; N Pos. 20,21
Seq#:1426; N Pos. 20,21
Seq#:1427; N Pos. 20,21
Seq#:1428; N Pos. 20,21
Seq#:1429; N Pos. 20,21
Seq#:1430; N Pos. 20,21
Seq#:1431; N Pos. 20,21
Seq#:1432; N Pos. 20,21
Seq#:1433; N Pos. 20,21
Seq#:1434; N Pos. 20,21
Seq#:1435; N Pos. 1,2
Seq#:1436; N Pos. 1,2
Seq#:1437; N Pos. 1,2
Seq#:1438; N Pos. 1,2
Seq#:1439; N Pos. 1,2
Seq#:1440; N Pos. 1,2
Seq#:1441; N Pos. 1,2
Seq#:1442; N Pos. 1,2
Seq#:1443; N Pos. 1,2
Seq#:1444; N Pos. 1,2
Seq#:1445; N Pos. 1,2
Seq#:1446; N Pos. 1,2
Seq#:1447; N Pos. 1,2
Seq#:1448; N Pos. 1,2
Seq#:1477; N Pos. 20,21
Seq#:1478; N Pos. 20,21
Seq#:1479; N Pos. 20,21
Seq#:1480; N Pos. 20,21
Seq#:1481; N Pos. 20,21
Seq#:1482; N Pos. 20,21
Seq#:1483; N Pos. 20,21
Seq#:1484; N Pos. 20,21
Seq#:1485; N Pos. 20,21
Seq#:1486; N Pos. 20,21
Seq#:1487; N Pos. 20,21
Seq#:1488; N Pos. 20,21
Seq#:1489; N Pos. 20,21
Seq#:1491; N Pos. 20,21
Seq#:1492; N Pos. 20,21
Seq#:1493; N Pos. 20,21

RAW SEQUENCE LISTING ERROR SUMMARY
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Input Set : F:\02-763-B Sequence Listing.txt
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Seq#:1494; N Pos. 20,21
Seq#:1499; N Pos. 20,21
Seq#:1500; N Pos. 20,21
Seq#:1501; N Pos. 20,21
Seq#:1502; N Pos. 20,21
Seq#:1503; N Pos. 20,21
Seq#:1504; N Pos. 20,21

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1690; Line(s) 28652
Seq#:1691; Line(s) 28680
Seq#:1692; Line(s) 28713
Seq#:1693; Line(s) 28745
Seq#:1694; Line(s) 28777
Seq#:1695; Line(s) 28810
Seq#:1696; Line(s) 28844

VERIFICATION SUMMARY

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Input Set : F:\02-763-B Sequence Listing.txt

Output Set: N:\CRF4\06162006\J667271A.raw

L:17180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1421 after pos.:0
L:17198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1422 after pos.:0
L:17216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1423 after pos.:0
L:17234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1424 after pos.:0
L:17252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1425 after pos.:0
L:17270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1426 after pos.:0
L:17288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1427 after pos.:0
L:17306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1428 after pos.:0
L:17324 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1429 after pos.:0
L:17342 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1430 after pos.:0
L:17360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1431 after pos.:0
L:17378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1432 after pos.:0
L:17396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1433 after pos.:0
L:17414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1434 after pos.:0
L:17432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1435 after pos.:0
L:17450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1436 after pos.:0
L:17468 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1437 after pos.:0
L:17486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1438 after pos.:0
L:17504 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1439 after pos.:0
L:17522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1440 after pos.:0
L:17540 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1441 after pos.:0
L:17558 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1442 after pos.:0
L:17576 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1443 after pos.:0
L:17594 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1444 after pos.:0
L:17612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1445 after pos.:0
L:17630 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1446 after pos.:0
L:17648 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1447 after pos.:0
L:17666 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1448 after pos.:0
L:18035 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1477 after pos.:0
L:18068 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1478 after pos.:0
L:18096 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1479 after pos.:0
L:18124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1480 after pos.:0
L:18162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1481 after pos.:0
L:18205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1482 after pos.:0
L:18243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1483 after pos.:0
L:18281 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1484 after pos.:0
L:18334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1485 after pos.:0
L:18392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1486 after pos.:0
L:18435 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1487 after pos.:0
L:18478 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1488 after pos.:0
L:18526 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1489 after pos.:0
L:18587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1491 after pos.:0
L:18620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1492 after pos.:0
L:18663 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1493 after pos.:0
L:18701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1494 after pos.:0
L:18826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1499 after pos.:0
L:18864 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1500 after pos.:0
L:18937 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1501 after pos.:0

VERIFICATION SUMMARY

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L:19020 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1502 after pos.:0
L:19107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1503 after pos.:0

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<210> 1421
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA sense region

<220>
<221> misc_feature
<222> (20)..(21)
<223> n stands for thymidine

<220>
<221> misc_feature
<222> (20)..(21)
<223> n stands for thymidine

<400> 1421
ccccgggagg ucucguagan n

no Ts allowed in an RNA sequence, even if represented by "n"

delete - already shown

For a combined DNA/RNA sequence, use

<2127 DNA and replaces in <2207-2237 section

This error also appears in subsequent sequences